CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.06/KRIDL/CEMENT/2014-15

Date: 12.07.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Technical Manager,** KRIDL, Bangalore.
NAME OF THE WORK	:	Improvements to roads and drains & Parks at Shirdi Sainagara, Shabarinagar, Kaveinagar in Ward No. 06 in Hegadenagara Village Limits, BBMP, Bangalore.
REFERENCE	:	AEE/Byatarayanapura/BBMP/420/2014-15 Dated: 10.07.2014
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	190 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	465 Minutes	Not More than 600 Minutes
3	Soundness by the Le-Chatelier method	IS-4031 (Part 3)	1 mm	Not more than 10 mm

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VISHWANATH .C
Quality Manager

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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Job No.: CTCE/BBMP/W.No.06/KRIDL/SAND/2014-15 : 12.07.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Improvements to roads and drains & Parks at Shirdi Sainagara, Shabarinagar, Kaveinagar in Ward No. 06 in Hegadenagara Village Limits, BBMP, Bangalore.

Reference : AEE/Byatarayanapura/BBMP/420/2014-15 Dated: 10.07.2014

Date of Testing : 12.07.2014

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	69	3.45	3.45	96.6	90-100
2.36	248	12.40	15.85	84.2	75-100
1.18	437	21.85	37.70	62.3	55-90
600 Micron	495	24.75	62.45	37.6	35-59
300 Micron	463	23.15	85.60	14.4	8-30
150 Micron	205	10.25	95.85	4.1	0-10

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Job No.: CTCE/BBMP/W.No.06/KRIDL/AGG/2014-15 : 12.07.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Improvements to roads and drains & Parks at Shirdi Sainagara, Shabarinagar, Kaveinagar in Ward No. 06 in Hegadenagara Village Limits, BBMP, Bangalore.

Reference : AEE/Byatarayanapura/BBMP/420/2014-15 Dated: 10.07.2014

Date of Testing : 12.07.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25200**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	942	3.74	3.74	96.26	95-100
20	15894	63.07	66.81	33.19	30-70
10	5126	20.34	87.15	12.85	10-35
4.75	2613	10.37	97.52	2.48	0-5

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Job No.: CTCE/BBMP/W.No.06/KRIDL /STEEL/2014-15 16.07.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager,** KRIDL, Bangalore.
Name of the Work	:	Improvements to roads and drains & Parks at Shirdi Sainagara, Shabarinagar, Kaveinagar in Ward No. 06 in Hegadenagara Village Limits, BBMP, Bangalore.
Reference	:	AEE/Byatarayanapura/BBMP/420/2014-15 Dated: 10.07.2014
Date of Test	:	16.07.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	8	0.40	511	554	13.05	O.K	O.K

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Job No.: CTCE/BBMP/W.No.06/KRIDL /STEEL/2014-15 16.07.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager,** KRIDL, Bangalore.
Name of the Work	:	Improvements to roads and drains & Parks at Shirdi Sainagara, Shabarinagar, Kaveinagar in Ward No. 06 in Hegadenagara Village Limits, BBMP, Bangalore.
Reference	:	AEE/Byatarayanapura/BBMP/420/2014-15 Dated: 10.07.2014
Date of Test	:	16.07.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	514	557	13.20	O.K	O.K

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Job No.: CTCE/BBMP/W.No.06/KRIDL/CUBE/2014-15 23.08.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager,** KRIDL, Bangalore.
Name of the work	: Improvements to roads and drains & Parks at Shirdi Sainagara, Shabarinagar, Kaveinagar in Ward No. 06 in Hegadenagara Village Limits, BBMP, Bangalore.
Reference	: AEE/Byatarayanapura/BBMP/420/2014-15 Dated: 10.07.2014
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.07.2014	23.08.2014	8.132	478.9	21.28
2	26.07.2014	23.08.2014	8.214	514.5	22.87
3	26.07.2014	23.08.2014	8.326	493.8	21.95

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